



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	09/701,782-Conf. #8137
				Filing Date	January 25, 2001
				First Named Inventor	Jurgen LAUTERJUNG
				Art Unit	2637
				Examiner Name	E. M. Chang
Sheet	1	of	2	Attorney Docket Number	4100-0120P

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
eh	AA*	US-5,761,613	06-02-1998	Saunders et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
eh	BA	EP-0 600 547 A1	06-08-1994			
eh	BB	EP-0 600 547 B1	02-09-2000			
eh	BC	WO-91/20142	12-26-1991			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
eh	CA	Wilson et al., "16 QAM Modulation with Orthogonal Frequency Division Multiplexing in a Rayleigh-Fading Environment", XP 997704, pp.1660-1664				
eh	CB	Masahiro, Hitoshi and Richard, NTT and Lucent, doc:IEEE 802.11-98/193 (May 1998)				
eh	CC	Bulumulla et al., "An Adaptive Diversity Receiver for OFDM in Fading Channels", Department of Electrical Engineering, University of Pennsylvania, IEEE, pp.1325-1329 (1998)				
eh	CD	Cimini, Jr., et al., "OFDM with Diversity and Coding for Advanced Cellular Internet Services", AT&T Labs - Research, IEEE, pp.305-309 (1997)				
eh	CE	European Standard (Telecommunications Series), "digital Video Broadcassting (DVB); Framing structure, channel coding and modulation for digital terrestrial television", EN 300 744 V1.1.2 (1997-08)				
eh	CF	McGibney et al., "Implementation of a High Performance Wireless LAN", pp.645-650, IEEE				
eh	CG	Tufvesson et al., "Pilot Assisted Channel Estimation for OFDM in Mobile Cellular Systems", Department of Applied Electronics, Lund University VTC '97				
eh	CH	Proakis, Digital Communications, Third Edition, "Diversity Techniques for Fading Multipath Channels", pp.777-781 (1995)				
eh	CI	Gibson, The Mobile Communications Handbook", IEEE Press, pp.172-173				
eh	CJ	Microwave Mobile Communications, Chapters 5 and 6, edited by William C. Jakes (1974)				
eh	CK	Proceedings of the IRE, pp.1074-1103				
eh	CL	Sawahashi et al., Electronic Letters, Vol. 32, No. 6, pp.522-523 (March 14, 1996)				
eh	CM	Baum et al., "A Comparison of Differential and Coherent Reception for a Coded OFDM System in a Low C/I Environment", IEEE, pp.300-304 (1997)				
eh	CN	Kim, "Coding Strategies for OFDM with Antenna Diversity for High-Bit-Rate Mobile Data Applications", VTC '98, pp.763-767 (1998)				
eh	CO	Lamarca, "Multichannel Receivers for OFDM and TDMA in Mobile Communications", IEEE, pp.3865-3868 (1997)				

Examiner Signature	<i>E. M. Chang</i>	Date Considered	11/28/05
--------------------	--------------------	-----------------	----------

Birch, Stewart, Kolasch & Birch, LLP

JTE/GH/bsh



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	2	of	2	Attorney Docket Number	4100-0120P
-------	---	----	---	------------------------	------------

Complete if Known

Application Number	09/701,782-Conf. #8137
Filing Date	January 25, 2001
First Named Inventor	Jurgen LAUTERJUNG
Art Unit	2637
Examiner Name	E. M. Chang
Attorney Docket Number	4100-0120P

eh	CP	Casas et al., "OFDM for Data Communication Over Mobile Radio FM Channels - Part II: Performance Improvement", IEEE Transactions on Communications, Vol. 40, No. 4, pp.680-683 (April 1992)	
eh	CQ	Kim et al., BER Analysis of QAM with MRC Space Diversity in Rayleigh Fading Channel", IEEE, pp.482-485 (1995)	
eh	CR	Eng et al., "Comparison of Diversity Combining Techniques for Rayleigh-Fading Channels", IEEE Transactions on Communications, Vol. 44, No. 9, pp.1117-1129 (September 1996)	
eh	CS	Sunaga et al., "Performance of Multi-Level QAM with Post-Detection Maximal Ratio Combining Space Diversity for Digital Land-Mobile Radio Communication", IEEE Transactions on Vehicular Technology, Vol. 42, No. 3, pp.294-301 (August 1993)	
eh	CT	Sampei et al., "Rayleigh Fading Compensation for QAM in Land Mobile Radio Communications", IEEE Transactions on Vehicular Technology, Vol. 42, No. 2, pp.137-147 (May 1993)	
eh	CU	Sampei et al., "Rayleigh Fading Compensation Method for 16QAM in Digital Land Mobile Radio Channels", IEEE, pp.640-646 (1989)	
eh	CV	Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. COM.33, No. 7, pp.665-675 (July 1985)	
eh	CW	Kalet, "A Multitone-Antenna Diversity Approach to PCS Communications", pp.473-476 (1996)	
eh	CX	Ulrich Reimers, Digitale Fernsehetechnik, Datenkompression und Ubertragung fur DVB, 2., vollstandig uberarbeitete Auflage, Mit 175 Abbildungen	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	<i>E. M. Chang</i>	Date Considered	11/28/05
-----------------------	--------------------	--------------------	----------

Birch, Stewart, Kolasch & Birch, LLP

JTE/GH/bsh